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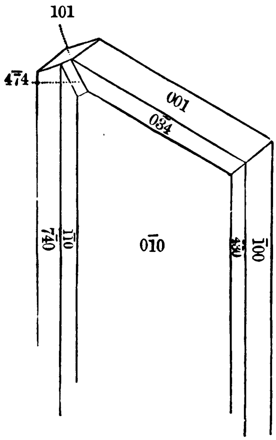
XX.

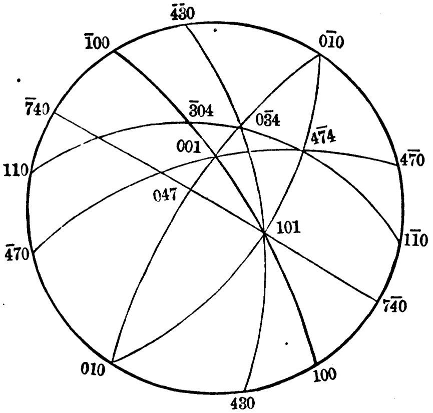
CONTRIBUTIONS FROM THE CHEMICAL LABORATORY OF HARVARD COLLEGE.

ON THE CRYSTALLINE FORM OF CHLORDIBROM-ACRYLIC ACID, $C_3ClBr_2O_2H_2$.

By Oliver W. Huntington, *Assistant.*

Presented May 9th, 1883.





These crystals were measured at the request of Dr. C. F. Mabery, who will describe their preparation in another connection. They are prismatic, and have the well-marked triclinic habit shown by the above free-hand sketch, while the accompanying stereographic projection gives more accurately the relations of the planes.

The chief prismatic axis is taken as the axis of *Z*, and the axes of the only other zones around which accurate measurements could be obtained were selected as the axes *X* and *Y*. The fundamental angles measured were: —

010	on	100	66° 23′
100	"	001	116° 17′
010	"	001	116° 20′
100	"	101	63° 50′
100	"	$1\bar{1}0$	47° 5′

From these we calculate

X on *Y* 104° 43′ *Y* on *Z* 71° 6′ *X* on *Z* 71° 10′

$$a : b : c = 0.7981 : 1 : 0.7207$$

In addition to the above, selected as fundamental planes, we also observed

$430;\ 0\bar{3}4;\ \bar{3}04?\ 7\bar{4}0;\ \bar{4}70;\ 4\bar{7}4;\ 047?$

These symbols were for the most part deduced from the zone intersections, and the indices could only in a few cases be verified by angular measurements. The faces of the vertical prism especially were very irregular, in consequence of the alternations caused by parallel grouping, so common with artificial crystals; and although the relative position of the fundamental planes could be accurately fixed, the symbols of the intermediate planes must be regarded as doubtful; these planes were seldom seen, and only in the vertical zone. The symbols given on the projection were obtained by finding the intersection with the vertical zone of other zones never well defined on the same crystal, and it can only be claimed that the approximate angular measurements on the vertical zone were compatible with the indices given. The following additional angles were calculated and verified by measurements when possible.

			Calculated.	Measured.
100	on	430	23° 52′	
100	"	$7\bar{4}0$	27° 5′	27°
010	"	$\bar{4}70$	42° 36′	42° 26′
$00\bar{1}$	"	$0\bar{3}4$	21°	21°